

09/868605

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SEQUENCE LISTING

<110> ML Laboratories PLC

<120> Immunosuppression

<130> P15700WO

<140> PCT/GB99/04200

<141> 1999-12-17

<150> 9827921.9

<151> 1998-12-19

<150> 9925015.1

<151> 1999-10-23

<160> 39

<170> PatentIn Ver. 2.1

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<212> PRT

<213> Homo sapiens

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35 40 45

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
50 55 60

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65 70 75 80

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
85 90 95

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
100 105 110

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
115 120 125

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
130 135 140

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145 150 155 160

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
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Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp

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Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
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Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
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Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
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Pro Cys Gln Phe Ala Asn Ser Gln Asn Gln Ser Leu Ser Glu Leu Val
35 40 45

Val Phe Trp Gln Asp Gln Glu Asn Leu Val Leu Asn Glu Val Tyr Leu
50 55 60

Gly Lys Glu Lys Phe Asp Ser Val His Ser Lys Tyr Met Gly Arg Thr
65 70 75 80

Ser Phe Asp Ser Asp Ser Trp Thr Leu Arg Leu His Asn Leu Gln Ile
85 90 95

Lys Asp Lys Gly Leu Tyr Gln Cys Ile Ile His His Lys Lys Pro Thr
100 105 110

Gly Met Ile Arg Ile His Gln Met Asn Ser Glu Leu Ser Val Leu Ala
115 120 125

Asn Phe Ser Gln Pro Glu Ile Val Pro Ile Ser Asn Ile Thr Glu Asn
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Val Tyr Ile Asn Leu Thr Cys Ser Ser Ile His Gly Tyr Pro Glu Pro
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Lys Lys Met Ser Val Leu Leu Arg Thr Lys Asn Ser Thr Ile Glu Tyr
165 170 175

Asp Gly Ile Met Gln Lys Ser Gln Asp Asn Val Thr Glu Leu Tyr Asp
180 185 190

Val Ser Ile Ser Leu Ser Val Ser Phe Pro Asp Val Thr Ser Asn Met
195 200 205

Thr Ile Phe Cys Ile Leu Glu Thr Asp Lys Thr Arg Leu Leu Ser Ser
210 215 220

Pro Phe Ser Ile Glu Leu Glu Asp Pro Gln Pro Pro Pro Asp His Ile
225 230 235 240

Pro Trp Ile Thr Ala Val Leu Pro Thr Val Ile Ile Cys Val Met Val
245 250 255

Phe Cys Leu Ile Leu Trp Lys Trp Lys Lys Lys Lys Arg Pro Arg Asn
260 265 270

Ser Tyr Lys Cys Gly Thr Asn Thr Met Glu Arg Glu Glu Ser Glu Gln
275 280 285

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<213> Homo sapiens

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35 40 45

Ser Asp Cys Thr Glu Phe Thr Glu Thr Glu Cys Leu Pro Cys Gly Glu
50 55 60

Ser Glu Phe Leu Asp Thr Trp Asn Arg Glu Thr His Cys His Gln His
65 70 75 80

Lys Tyr Cys Asp Pro Asn Leu Gly Leu Arg Val Gln Gln Lys Gly Thr
85 90 95

Ser Glu Thr Asp Thr Ile Cys Thr Cys Glu Glu Gly Trp His Cys Thr
100 105 110

Ser Glu Ala Cys Glu Ser Cys Val Leu His Arg Ser Cys Ser Pro Gly
115 120 125

Phe Gly Val Lys Gln Ile Ala Thr Gly Val Ser Asp Thr Ile Cys Glu
130 135 140

Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
145 150 155 160

Cys His Pro Trp Thr Ser Cys Glu Thr Lys Asp Leu Val Val Gln Gln
165 170 175

Ala Gly Thr Asn Lys Thr Asp Val Val Cys Gly Pro Gln Asp Arg Leu
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Arg Ala Leu Val Val Ile Pro Ile Ile Phe Gly Ile Leu Phe Ala Ile
195 200 205

Leu Leu Val Leu Val Phe Ile Lys Lys Val Ala Lys Lys Pro Thr Asn
210 215 220

Lys Ala Pro His Pro Lys Gln Glu Pro Gln Glu Ile Asn Phe Pro Asp
225 230 235 240

Asp Leu Pro Gly Ser Asn Thr Ala Ala Pro Val Gln Glu Thr Leu His
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Val Gln Glu Arg Gln
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Ala Gln Ile Gly Asp Ser Val Ser Leu Thr Cys Ser Thr Thr Gly Cys
35 40 45

Glu Ser Pro Phe Phe Ser Trp Arg Thr Gln Ile Asp Ser Pro Leu Asn
50 55 60

Gly Lys Val Thr Asn Glu Gly Thr Thr Ser Thr Leu Thr Met Asn Pro
65 70 75 80

Val Ser Phe Gly Asn Glu His Ser Tyr Leu Cys Thr Ala Thr Cys Glu
85 90 95

Ser Arg Lys Leu Glu Lys Gly Ile Gln Val Glu Ile Tyr Ser Phe Pro
100 105 110

Lys Asp Pro Glu Ile His Leu Ser Gly Pro Leu Glu Ala Gly Lys Pro
115 120 125

Ile Thr Val Lys Cys Ser Val Ala Asp Val Tyr Pro Phe Asp Arg Leu
130 135 140

Glu Ile Asp Leu Leu Lys Gly Asp His Leu Met Lys Ser Gln Glu Phe
145 150 155 160

Leu Glu Asp Ala Asp Arg Lys Ser Leu Glu Thr Lys Ser Leu Glu Val
165 170 175

Thr Phe Thr Pro Val Ile Glu Asp Ile Gly Lys Val Leu Val Cys Arg
180 185 190

Ala Lys Leu His Ile Asp Glu Met Asp Ser Val Pro Thr Val Arg Gln
195 200 205

Ala Val Lys Glu Leu Gln Val Tyr Ile Ser Pro Lys Asn Thr Val Ile
210 215 220

Ser Val Asn Pro Ser Thr Lys Leu Gln Glu Gly Gly Ser Val Thr Met
225 230 235 240

Thr Cys Ser Ser Glu Gly Leu Pro Ala Pro Glu Ile Phe Trp Ser Lys
245 250 255

Lys Leu Asp Asn Gly Asn Leu Gln His Leu Ser Gly Asn Ala Thr Leu
260 265 270

Thr Leu Ile Ala Met Arg Met Glu Asp Ser Gly Ile Tyr Val Cys Glu
275 280 285

Gly Val Asn Leu Ile Gly Lys Asn Arg Lys Glu Val Glu Leu Ile Val
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Gln Glu Lys Pro Phe Thr Val Glu Ile Ser Pro Gly Pro Arg Ile Ala
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Ala Gln Ile Gly Asp Ser Val Met Leu Thr Cys Ser Val Met Gly Cys
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Val Ser Phe Glu Asn Glu His Ser Tyr Leu Cys Thr Val Thr Cys Gly
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His Lys Lys Leu Glu Lys Gly Ile Gln Gly Glu Leu Tyr Ser Phe Pro
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Arg Asp Pro Glu Ile Glu Met Ser Gly Gly Leu Val Asn Gly Ser Ser
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Leu Glu Asp Thr Asp Met Lys Ser Leu Glu Asn Lys Ser Leu Glu Met
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Ala Lys Leu His Ile Asp Asp Met Glu Phe Glu Pro Lys Gln Arg Gln
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Thr Leu Ile Ser Thr Lys Met Glu Asp Ser Gly Val Tyr Leu Cys Glu		
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Gly Ile Asn Gln Ala Gly Arg Ser Arg Lys Glu Val Glu Leu Ile Ile		
580	585	590
Gln Val Thr Pro Lys Asp Ile Lys Leu Thr Ala Phe Pro Ser Glu Ser		
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Val Lys Glu Gly Asp Thr Val Ile Ile Ser Cys Thr Cys Gly Asn Val		
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Pro Glu Thr Trp Ile Ile Leu Lys Lys Ala Glu Thr Gly Asp Thr		
625	630	635
Val Leu Lys Ser Ile Asp Gly Ala Tyr Thr Ile Arg Lys Ala Gln Leu		
645	650	655
Lys Asp Ala Gly Val Tyr Glu Cys Glu Ser Lys Asn Lys Val Gly Ser		
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Gln Leu Arg Ser Leu Thr Leu Asp Val Gln Gly Arg Glu Asn Asn Lys		
675	680	685
Asp Tyr Phe Ser Pro Glu Leu Leu Val Leu Tyr Phe Ala Ser Ser Leu		
690	695	700
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<400> 7

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Gln Leu Ser Lys Ser Val Lys Asp Lys Val Leu Leu Pro Cys Arg Tyr
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Pro Glu Tyr Lys Asn Arg Thr Leu Tyr Asp Asn Thr Thr Tyr Ser Leu
 100 105 110
 Ile Ile Leu Gly Leu Val Leu Ser Asp Arg Gly Thr Tyr Ser Cys Val

Val Gln Lys Lys Glu Arg Gly Thr Tyr Glu Val Lys His Leu Ala Leu

Val Lys Leu Ser Ile Lys Ala Asp Phe Ser Thr Pro Asn Ile Thr Glu

Ser Gly Asn Pro Ser Ala Asp Thr Lys Arg Ile Thr Cys Phe Ala Ser
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Gly Gly Phe Pro Lys Pro Arg Phe Ser Trp Leu Glu Asn Gly Arg Glu
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Leu Pro Gly Ile Asn Thr Thr Ile Ser Gln Asp Pro Glu Ser Glu Leu
125 200 205

Tyr Thr Ile Ser Ser Gln Leu Asp Phe Asn Thr Thr Arg Asn His Thr
310 315 320

Ile Lys Cys Leu Ile Lys Tyr Gly Asp Ala His Val Ser Glu Asp Phe
 225 230 235 240

Thr Trp Glu Lys Pro Pro Glu Asp Pro Pro Asp Ser Lys Asn Thr Leu
345 350 355

Val Leu Phe Gly Ala Gly Phe Gly Ala Val Ile Thr Val Val Val Ile
 260 265 270

Val Val Ile Ile Lys Cys Phe Cys Lys His Arg Ser Cys Phe Arg Arg
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Lys Tyr Leu Gly Arg Thr Ser Phe Asp Arg Asn Asn Trp Thr Leu Arg
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Leu His Asn Val Gln Ile Lys Asp Met Gly Ser Tyr Asp Cys Phe Ile
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Gln Lys Lys Pro Pro Thr Gly Ser Ile Ile Leu Gln Gln Thr Leu Thr
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Glu Leu Ser Val Ile Ala Asn Phe Ser Glu Pro Glu Ile Lys Leu Ala
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Gln Asn Val Thr Gly Asn Ser Gly Ile Asn Leu Thr Cys Thr Ser Lys
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Gln Gly His Pro Lys Pro Lys Lys Met Tyr Phe Leu Ile Thr Asn Ser
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Thr Asn Glu Tyr Gly Asp Asn Met Gln Ile Ser Gln Asp Asn Val Thr
180 185 190

Glu Leu Phe Ser Ile Ser Asn Ser Leu Ser Leu Ser Phe Pro Asp Gly
195 200 205

Val Trp His Met Thr Val Val Cys Val Leu Glu Thr Glu Ser Met Lys
210 215 220

Ile Ser Ser Lys Pro Leu Asn Phe Thr Gln Glu Phe Pro Ser Pro Gln
225 230 235 240

Thr Tyr Trp Lys Glu Ile Thr Ala Ser Val Thr Val Ala Leu Leu Leu
245 250 255

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260 265 270

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<212> DNA

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<213> Mus musculus

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Arg His Cys Glu Pro Asn Gln Gly Leu Arg Val Lys Lys Glu Gly Thr
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Ala Glu Ser Asp Thr Val Cys Thr Cys Lys Glu Gly Gln His Cys Thr
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Ser Lys Asp Cys Glu Ala Cys Ala Gln His Thr Pro Cys Ile Pro Gly
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Phe Gly Val Met Glu Met Ala Thr Glu Thr Thr Asp Thr Val Cys His
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Pro Cys Pro Val Gly Phe Phe Ser Asn Gln Ser Ser Leu Phe Glu Lys
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Cys Tyr Pro Trp Thr Ser Cys Glu Asp Lys Asn Leu Glu Val Leu Gln
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Lys Gly Thr Ser Gln Thr Asn Val Ile Cys Gly Leu Lys Ser Arg Met
180 185 190

Arg Ala Leu Leu Val Ile Pro Val Val Met Gly Ile Leu Ile Thr Ile
195 200 205

Phe Gly Val Phe Leu Tyr Ile Lys Lys Val Val Lys Lys Pro Lys Asp
210 215 220

Asn Glu Met Leu Pro Pro Ala Ala Arg Arg Gln Asp Pro Gln Glu Met
225 230 235 240

Glu Asp Tyr Pro Gly His Asn Thr Ala Ala Pro Val Gln Glu Thr Leu
245 250 255

His Gly Cys Gln Pro Val Thr Gln Glu Asp Gly Lys Glu Ser Arg Ile
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Val

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<213> Porcus spp

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atccctcccg agacaaatgt gagcatcgtc tgtgtcctgc aactttaggg aagcaagaca 660
ctgctttct ccctaccttgc taatatacat gcaaagccac ctgtgcaccc ccctgtccca 720
gaccacatcc tctggattgc agctctactt gtaacagtgg tcgttgttg tggatggtg 780
tccttgcata cactaaggaa aaggaagaag aagcagcctg gcccctctaa tgaatgttg 840
gaaaccatca aaatgaacacag gaaggcgagt gaacaaacta agaacagagc agaagtccat 900
gaacatctg atgatgcccc gttgtatgtt aatattttaa agacagcctc agatgacaac 960
agtactacag atttttaattt aaagagtaaa ctcc 994

<210> 14
<211> 330
<212> PRT
<213> Porcus spp

<400> 14
Met Gly Leu Ser Asn Ile Leu Phe Val Met Val Leu Leu Leu Ser Gly
1 5 10 15

Ala Ala Ser Leu Lys Ser Gln Ala Tyr Phe Asn Glu Thr Gly Glu Leu
20 25 30

Pro Cys His Phe Thr Asn Ser Gln Asn Leu Ser Leu Asp Glu Leu Val
35 40 45

Ile Phe Trp Gln Asp Gln Asp Asn Leu Val Leu Tyr Glu Leu Tyr Arg
50 55 60

Gly Gln Glu Lys Pro His Asn Val Asn Ser Lys Tyr Met Gly Arg Thr
65 70 75 80

Ser Phe Asp Gln Ala Thr Trp Thr Leu Arg Leu His Asn Val Gln Ile
85 90 95

Lys Asp Lys Gly Ser Tyr Gln Cys Phe Ile His His Lys Gly Pro His
100 105 110

Gly Leu Val Pro Ile His Gln Met Ser Ser Asp Leu Ser Leu Leu Ala
115 120 125

Asn Phe Ser Gln Pro Glu Ile Asn Leu Leu Thr Asn His Thr Glu Asn
 130 135 140
 Ser Val Ile Asn Leu Thr Cys Ser Ser Thr Gln Gly Tyr Pro Glu Pro
 145 150 155 160
 Gln Arg Met Tyr Met Leu Leu Asn Thr Lys Asn Ser Thr Thr Glu His
 165 170 175
 Asp Ala Asp Met Lys Lys Ser Gln Asn Asn Ile Thr Glu Leu Tyr Asn
 180 185 190
 Val Ser Ile Arg Val Ser Leu Pro Ile Pro Pro Glu Thr Asn Val Ser
 195 200 205
 Ile Val Cys Val Leu Gln Leu Glu Pro Ser Lys Thr Leu Leu Phe Ser
 210 215 220
 Leu Pro Cys Asn Ile Asp Ala Lys Pro Pro Val Gln Pro Pro Val Pro
 225 230 235 240
 Asp His Ile Leu Trp Ile Ala Ala Leu Leu Val Thr Val Val Val Val
 245 250 255
 Cys Gly Met Val Ser Phe Val Thr Leu Arg Lys Arg Lys Lys Lys Gln
 260 265 270
 Pro Gly Pro Ser Asn Glu Cys Gly Glu Thr Ile Lys Met Asn Arg Lys
 275 280 285
 Ala Ser Glu Gln Thr Lys Asn Arg Ala Glu Val His Glu Arg Ser Asp
 290 295 300
 Asp Ala Gln Cys Asp Val Asn Ile Leu Lys Thr Ala Ser Asp Asp Asn
 305 310 315 320
 Ser Thr Thr Asp Phe Leu Lys Ser Lys Leu
 325 330

<210> 15
 <211> 837
 <212> DNA
 <213> Porcuss

<400> 15
 atgggtcgtt tgcctctgca gtgtctcctc tggggctgct ttttggccgc cgtccaccca 60
 gaaccaccca cttcatgcaa agaaaaaccaa tacccaacaa acagccggtg ctgttaatttg 120
 tgcccgccag gacagaaaact ggtgaaccac tgcacagagg tcactgaaac agaatgcctt 180
 ctttcgttgtt ccagcgaatt cctagccacc tggaaatagag agaaacactg tcatcagcac 240
 aaatactgctt accccaaacct aggtctccag gtccagaggg agggcacctc gaaaacagac 300
 accacttgtt tgcgttgtt agggccatcac tgttccaca ggcctgttga aagtgcacc 360
 ttgcacagct tgcgtttccc tggctcggg gtcaagcaga tggcgacaga gtttctgac 420
 actatctgtt aaccctgccc agttggctt ttctccaatg tatcatctgc ttcagaaaaag 480
 tgcgttgtt ggacaagctg cgagagcaaa ggcctgggtt aacaacgtgc gggactaac 540
 aagaccgatg ttgtctgtgg ttcccaagat cgatgagag ccctgggttgtt tatccccatc 600
 acgctgggaa tcctgtttgc cgtccgtttt gtatttctct gtatcagaaa ggtgaccaag 660
 gagcaggaga ctaaggccct gcaccctaag actgaaaggc aggtatccgtt ggagacgatt 720
 gatctggagg atttcccgta ctcaccgct ccgggtgcagg agaccttaca ttgggtgccag 780
 cccgtcaccc aggaggacgg caaaagagatg cgcatctcg tgcaggagag acagtga 837

<210> 16
<211> 278
<212> PRT
<213> Porcuss

<400> 16
Met Val Arg Leu Pro Leu Gln Cys Leu Leu Trp Gly Cys Phe Leu Thr
1 5 10 15

Ala Val His Pro Glu Pro Pro Thr Ser Cys Lys Glu Asn Gln Tyr Pro
20 25 30

Thr Asn Ser Arg Cys Cys Asn Leu Cys Pro Pro Gly Gln Lys Leu Val
35 40 45

Asn His Cys Thr Glu Val Thr Glu Thr Glu Cys Leu Pro Cys Ser Ser
50 55 60

Ser Glu Phe Leu Ala Thr Trp Asn Arg Glu Lys His Cys His Gln His
65 70 75 80

Lys Tyr Cys Asp Pro Asn Leu Gly Leu Gln Val Gln Arg Glu Gly Thr
85 90 95

Ser Lys Thr Asp Thr Thr Cys Val Cys Ser Glu Gly His His Cys Thr
100 105 110

Asn Ser Ala Cys Glu Ser Cys Thr Leu His Ser Leu Cys Phe Pro Gly
115 120 125

Leu Gly Val Lys Gln Met Ala Thr Glu Val Ser Asp Thr Ile Cys Glu
130 135 140

Pro Cys Pro Val Gly Phe Phe Ser Asn Val Ser Ser Ala Ser Glu Lys
145 150 155 160

Cys Gln Pro Trp Thr Ser Cys Glu Ser Lys Gly Leu Val Glu Gln Arg
165 170 175

Ala Gly Thr Asn Lys Thr Asp Val Val Cys Gly Phe Gln Ser Arg Met
180 185 190

Arg Ala Leu Val Val Ile Pro Ile Thr Leu Gly Ile Leu Phe Ala Val
195 200 205

Leu Leu Val Phe Leu Cys Ile Arg Lys Val Thr Lys Glu Gln Glu Thr
210 215 220

Lys Ala Leu His Pro Lys Thr Glu Arg Gln Asp Pro Val Glu Thr Ile
225 230 235 240

Asp Leu Glu Asp Phe Pro Asp Ser Thr Ala Pro Val Gln Glu Thr Leu
245 250 255

His Trp Cys Gln Pro Val Thr Gln Glu Asp Gly Lys Glu Ser Arg Ile
260 265 270

Ser Val Gln Glu Arg Gln
275

<210> 17
<211> 534
<212> PRT
<213> Porcuss

<400> 17
Ile Val Val Ile Phe Gly Ala Ser Asn Ile Leu Trp Met Val Phe Ala
1 5 10 15

Val Ser Gln Asn Val Lys Val Glu Ile Phe Pro Glu Asp Lys Met Ile
20 25 30

Ala Gln Ile Gly Asp Ser Ala Ser Leu Thr Cys Ser Ala Pro Asp Cys
35 40 45

Glu Ser Ser Leu Ser Phe Ser Trp Arg Thr Gln Ile Asp Ser Pro Leu
50 55 60

Asn Gly Lys Val Lys Thr Asn Gly Thr Arg Ser Thr Leu Val Met Asn
65 70 75 80

Pro Val Ser Phe Glu Asn Glu His Ser Tyr Leu Cys Thr Val Ser Cys
85 90 95

Gly Asn Leu Lys Gly Glu Arg Gly Ile Gln Val Glu Ile Tyr Ser Phe
100 105 110

Pro Lys Asp Pro Glu Ile His Trp Ser Ser Leu Pro Glu Val Gly Lys
115 120 125

Pro Val Thr Val Arg Cys Leu Val Pro Asp Val Tyr Pro Val Glu Lys
130 135 140

Leu Glu Ile Glu Leu Leu Lys Asp Asn His Ser Met Val Ser Gln Asn
145 150 155 160

Phe Leu Glu Leu Ile Asp Ile Lys Ser Lys Glu Thr Lys Ser Leu Glu
165 170 175

Phe Thr Phe Thr Pro Thr Glu Glu Asp Ile Gly Lys Ala Ile Val Cys
180 185 190

Gln Ala Thr Leu Ile Ile Asp Gly Gln Pro Ser Val Lys Thr Thr Pro
195 200 205

Glu Lys Met Gln Val Tyr Ile Ser Pro Lys Asp Pro Val Ile Ser Val
210 215 220

Asn Pro Ser Thr Ser Leu Gln Glu Gly Asp Ser Met Met Met Thr Cys
225 230 235 240

Thr Ser Glu Gly Leu Pro Ala Pro Gln Ile Ser Trp Ser Lys Lys Leu
245 250 255

Asp Asn Gly Asp Gln Gln Leu Leu Ser Gly Asn Ala Thr Leu Thr Leu
260 265 270

Ile Ala Met Arg Met Glu Asp Ser Gly Ile Tyr Val Cys Glu Gly Val
275 280 285

Asn Pro Val Gly Thr Asn Arg Lys Glu Val Glu Leu Thr Val Gln Val
 290 295 300
 Ala Pro Arg Asp Thr Thr Ile Ser Val Asn Pro Ser Ser Thr Leu Glu
 305 310 315 320
 Glu Gly Ser Ser Val Asn Met Thr Cys Ser Ser Asp Gly Phe Pro Ala
 325 330 335
 Pro Lys Ile Leu Trp Ser Lys Lys Leu Arg Asp Gly Asn Leu Glu Pro
 340 345 350
 Leu Ser Glu Asn Thr Thr Leu Thr Leu Thr Ser Thr Lys Met Glu Asp
 355 360 365
 Ser Gly Ile Tyr Val Cys Glu Gly Ile Asn Gln Ala Gly Ile Asn Arg
 370 375 380
 Lys Glu Val Glu Leu Ile Ile Gln Ala Ala Pro Lys Asp Leu Gln Leu
 385 390 395 400
 Thr Ala Phe Pro Ser Glu Ser Val Lys Glu Gly Asp Thr Val Ile Ile
 405 410 415
 Ser Cys Thr Cys Gly Asn Val Pro Pro Thr Leu Ile Ile Leu Lys Lys
 420 425 430
 Lys Ala Glu Thr Gly Asp Thr Val Leu Lys Ser Thr Asp Gly Ala Tyr
 435 440 445
 Thr Ile His Arg Ala Arg Leu Ala Asp Ala Gly Val Tyr Glu Cys Glu
 450 455 460
 Ser Lys Asn Glu Ile Gly Leu Gln Leu Arg Ser Ile Thr Leu Asp Val
 465 470 475 480
 Lys Gly Arg Glu Ser Asn Lys Asp Tyr Phe Ser Ser Glu Leu Leu Val
 485 490 495
 Leu Tyr Cys Ala Ser Ser Leu Ile Ile Pro Ala Ile Gly Val Ile Ile
 500 505 510
 Tyr Phe Ala Arg Lys Ala Asn Met Arg Gly Ser Tyr Ser Leu Val Asp
 515 520 525
 Ala Gln Lys Ser Lys Val
 530

<210> 18
 <211> 807
 <212> DNA
 <213> Vacca spp

<400> 18
 atgggttcgtt tgccactgca gtgtctttc tggggcttct ttctgaccgc cgtccactca 60
 gaaccagcca ctgcttgg agagaagcaa tacccagtga acagtcttg ctgtgatttg 120
 tgcccgccgg gacagaaaact ggtgaacgac tgcacagagg tcagcaaaac agaatgccag 180
 tcctgcggta aaggcgaatt ctttgtccacc tggAACAGAG agaaatactg tcacgagcac 240
 agataactgca accccaaacct agggctccgg atccagagcg agggtacctt gaatacagac 300
 accatttgcgttatgtgtcga aggccaacac tgtaccagtc acacctgcga aagttgcacg 360

ccccacagct tggcttcggg gtcaagcaga tcgctacagg gctttggat 420
accgtctgtg aaccctgccc gctcggttc ttctccaacg tgcgtatctgc ttttgaaaag 480
tgtcaccgtt ggacaagctg cgagagaaaa ggcctggtgg aacaacacgt ggggacgaac 540
aagacagatg ttgtctgcgg tttccagagt cggatgagga ccctggtggt gatccccgtc 600
acgtatggag tcttgtttgc tgcgtatggt gatctgcct gatcagggaa cataaccaag 660
aagccgcagc taaggccctg caccctatgg ctgaaaggca ggatcccgtg gagacgattg 720
atccggagga ttttcccgcc ccccacccgc ctctccggtg caagagacct tatgtggtg 780
tcagccgtc gcccaggagg acggcaa 807

<210> 19
<211> 269
<212> PRT
<213> Vacca spp

<400> 19
Met Val Arg Leu Pro Leu Gln Cys Leu Phe Trp Gly Phe Phe Leu Thr
1 5 10 15

Ala Val His Ser Glu Pro Ala Thr Ala Cys Gly Glu Lys Gln Tyr Pro
20 25 30

Val Asn Ser Leu Cys Cys Asp Leu Cys Pro Pro Gly Gln Lys Leu Val
35 40 45

Asn Asp Cys Thr Glu Val Ser Lys Thr Glu Cys Gln Ser Cys Gly Lys
50 55 60

Gly Glu Phe Leu Ser Thr Trp Asn Arg Glu Lys Tyr Cys His Glu His
65 70 75 80

Arg Tyr Cys Asn Pro Asn Leu Gly Leu Arg Ile Gln Ser Glu Gly Thr
85 90 95

Leu Asn Thr Asp Thr Ile Cys Val Cys Val Glu Gly Gln His Cys Thr
100 105 110

Ser His Thr Cys Glu Ser Cys Thr Pro His Ser Leu Cys Leu Pro Gly
115 120 125

Phe Gly Val Lys Gln Ile Ala Thr Gly Leu Leu Asp Thr Val Cys Glu
130 135 140

Pro Cys Pro Leu Gly Phe Phe Ser Asn Val Ser Ser Ala Phe Glu Lys
145 150 155 160

Cys His Arg Trp Thr Ser Cys Glu Arg Lys Gly Leu Val Glu Gln His
165 170 175

Val Gly Thr Asn Lys Thr Asp Val Val Cys Gly Phe Gln Ser Arg Met
180 185 190

Arg Thr Leu Val Val Ile Pro Val Thr Met Gly Val Leu Phe Ala Val
195 200 205

Leu Leu Val Ser Ala Cys Ile Arg Asn Ile Thr Lys Lys Arg Gln Leu
210 215 220

Arg Pro Cys Thr Leu Trp Leu Lys Gly Arg Ile Pro Trp Arg Arg Leu
225 230 235 240

Ile Arg Arg Ile Phe Pro Ala Pro Thr Arg Leu Ser Gly Ala Arg Asp
245 250 255

Leu Met Leu Val Ser Ala Gly Arg Pro Gly Gly Arg Gln
260 265

<210> 20

<211> 867

<212> DNA

<213> Vacca spp

<400> 20

atgggccaca cacggaggca gggAACATCA ccatccaAGT gtccatacct caatttcttt 60
cagctcttgg tgctggctgg tcttcac ttctgttcag gtgttatcca cgtgaccaag 120
gaagtgaaag aagtggcaac gctgtcctgt ggtcacaatg tttctgttg agagctggca 180
caaactcgca tctactggca aaaggagaag aaaatggtgc tgactatgtat gtctggggac 240
atgaatatat ggcccagta caagaaccgg accatcttg atatcactaa taacctctcc 300
atttgatcc tggctctgcg cccatctgac gagggcacat acgagtgtgt tttctgaag 360
tataaaaaag acgctttcaa gcgggaacac ctggctgaag tgacgttac agtcaaagct 420
gactcccta cacctagat atctgacttt gaaattccaa cttctaataat tagaaggata 480
atttgctcaa cctctggagg tttccagag cctcacctct cctgggttga aaatggagaa 540
gaattaaatg ccatcaaacac aacagttcc caagatcctg aaactgagct ctatgctgtt 600
agcagcaaac tggatttcaa tatgacaacc aaccacagct tcattgtgtt catcaagttat 660
ggacatttaa gagtgaatca gaccccaac tggaaatacaa ccaaggcaaga gcatttcct 720
gataacctgc tccccatcctg ggccattacc ttaatcttag taaaatggaaat ttttgtgata 780
tgctgcctga cctactgtt tgccccaaga tgcagagaga gaaggaggaa tgagagattg 840
agaaggaaa gtgtacgccc tgtataa 867

<210> 21

<211> 35

<212> DNA

<213> Porcus spp

<400> 21

gcatggatcc atgggactga gtaacattct ctttg 35

<210> 22

<211> 34

<212> DNA

<213> Porcus

<400> 22

gcatgtcgac taaaaaatct gtagtactgt tgtc 34

<210> 23

<211> 17

<212> DNA

<213> Porcus

<400> 23

agaccgtctt ccttttag 17

<210> 24

<211> 21

<212> DNA

<213> Porcus

<400> 24
ttggatcctc catgttatcc c 21

<210> 25
<211> 12
<212> DNA
<213> Porcus

<400> 25
agcatctgaa gc 12

<210> 26
<211> 22
<212> DNA
<213> Porcus spp

<400> 26
atggatcctc catttccaa cc 22

<210> 27
<211> 18
<212> DNA
<213> Porcus spp

<400> 27
ttgtcgacat ctactggc 18

<210> 28
<211> 58
<212> DNA
<213> Porcus spp

<400> 28
ggatcctcac tgtctctcct gatgagatgc gactctcctc tttgcccgtc cgtcctcc 58

<210> 29
<211> 29
<212> DNA
<213> Porcus spp

<400> 29
gaattcatgg ttctgttgcc tctgcagtg 29

<210> 30
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 30
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly

1

5

10

15

Arg Ser Phe Asp Gln Ala Thr Trp Thr Leu Arg
20 25

<210> 31
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Porcuss spp/ovalbumen
chimeric peptide

<400> 31
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Leu Pro Cys His Phe Thr Asn Ser Gln
20 25

<210> 32
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Porcuss spp/ovalbumen
chimeric peptide

<400> 32
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Lys Gly Pro His Gly Leu Val Pro Ile His Gln Met Ser
20 25 30

<210> 33
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Porcuss spp/ovalbumen
chimeric peptide

<400> 33
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Gly Leu Val Pro Ile His Gln Met Ser
20 25

<210> 34
<211> 28
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 34

Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Val Gln Ile Lys Asp Lys Gly Ser Tyr Gln Cys
20 25

<210> 35

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 35

Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Cys Ser Ser Thr Gln Gly Tyr Pro Glu Pro Gln Arg
20 25

<210> 36

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 36

Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Lys Ser Gln Ala Tyr Phe Asn Glu Thr Gly Glu Leu
20 25

<210> 37

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 37

Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Ala Ser Leu Lys Ser Gln Ala Tyr Phe Asn Glu Thr

20

25

<210> 38
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 38
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg Tyr Met Gly Arg Thr Ser Phe Asp Gln Ala Thr Trp Thr
20 25 30

<210> 39
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Porcus spp/ovalbumen
chimeric peptide

<400> 39
Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu Ala Gly
1 5 10 15

Arg

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